BEHAVIOR GENETICS

Vol. 18, No. 1 **January 1988**

CONTENTS

Aggressive Behavior Induced in Female Mice by an Early Single Injection of Testosterone Is Genotype Dependent 1
Christine Michard-Vanhée

Genetic Changes Occurring Over 500 Generations in Lines of *Drosophila melanogaster* Selected Divergently for Geotaxis 13
Jeffry P. Ricker and Jerry Hirsch

Dominance Alone Is Not Enough 27
L. J. Eaves

Postnatal Development of Brain and Behavior of Shaker Short-Tail Mice 35
Jill P. Lyons and Douglas Wahlsten

Differences Between Inbred Strains of Mice in Morris Water Maze Performance 55
Margaret Upchurch and Jeanne M. Wehner

Handedness in a Sample of Volunteer Twins 69
M. C. Neale

Autosomal and Maternal Effects on Pupation Behavior in *Drosophila melanogaster* 81
Sharon J. Bauer and Marla B. Sokolowski

Autosomal and Heterosomal Influences on Behavioral and Somatic Traits in Mice 99
J. H. F. van Abeelen

A Note on Computing the Chi-Square Noncentrality Parameter for Power Analyses 105
J. K. Hewitt and A. C. Heath

Circadian Period in Mice: Analysis of Genetic and Maternal Contributions to Inbred Strain Differences 109
Bernard Possidente and Friedrich K. Stephan

Estimation of Heritability of Learning Behavior in Honeybees (*Apis mellifera capensis*) 119
Ch. Brandes

BEHAVIOR GENETICS

Vol. 18, No. 2 **March 1988**

CONTENTS

Resolving Causes of Developmental Continuity or "Tracking." I. Longitudinal Twin Studies During Growth 133
J. K. Hewitt, L. J. Eaves, M. C. Neale, and J. M. Meyer

Water-Maze Learning in the Mouse Correlates with Variation in Hippocampal Morphology 153
H. Schwegler, W. E. Crusio, H.-P. Lipp, and B. Heimrich

Age, Incentives, and Maze Learning By Hybrid Mice 167
J. M. Warren

Differences Between CBA/H and NZB Mice on Intermale Aggression. II. Maternal Effects 175
Pierre L. Roubertoux and Michèle Carlier

Selective Breeding of Mice for Differential Sensitivity to Diazepam 185
Y. L. Yoong and P. T.-H. Wong

Partial Paternal Inheritance of Realized Fecundity in a Bruchid Beetle, *Callozobruchus maculatus* 193
Steven S. Wasserman

Genetic Analysis of Cercarial Emergence Rhythms of *Schistosoma mansoni* 201
André Théron and Claude Combes

Sexual Isolation and Courtship Behavior in *Drosophila simulans*, *D. mauritiana*, and Their Interspecific Hybrids 211
Matthew Cobb, Barrie Burnet, and Kevin Connolly

Isolation of *Drosophila melanogaster* Mutants with a Wavelength-Specific Alteration in Their Phototactic Response 227
Fritz Gerresheim

Covariation Between Intelligence and Speed of Cognitive Processing: Genetic and Environmental Influences 247
Hsiu-Zu Ho, Laura Baker, and Sadie N. Decker

BEHAVIOR GENETICS ASSOCIATION MEMBERSHIP LIST 263

BEHAVIOR GENETICS

Vol. 18, No. 3 **May 1988**

CONTENTS

Behavior, Stress, and Variability 293
Peter A. Parsons

Frequency of Social Contact and Intrapair Resemblance of Adult Monozygotic Cotwins—*Or Does Shared Experience Influence Personality After All?* 309
Richard J. Rose and Jaakko Kaprio

Inference About Genetic Correlations 329
Gregory Carey

Assortative Mating for IQ and Personality Due to Propinquity and Personal Preference 339
C. G. N. Mascie-Taylor and S. G. Vandenberg

Direct Marital Assortment for Cognitive and Personality Variables 347
Kay Phillips, David W. Fulker, Gregory Carey, and Craig T. Nagoshi

Selection for High and Low Mating Propensity in *Drosophila ananassae* 357
B. N. Singh and Sujata Chatterjee

Inheritance of Burrow Building in *Peromyscus* 371
Wallace D. Dawson, Cynthia E. Lake, and Sharon S. Schumpert

Anorexia and Sexual Maturity in Female White Rock Chickens. I. Increasing the Feed Intake 383
D. J. Zelenka, E. A. Dunnington, J. A. Cherry, and P. B. Siegel

Genetic Variability of Sexual Behavior in a Natural Population of *Drosophila melanogaster* 389
Michel Veille and Suzanne Mazeau

BEHAVIOR GENETICS

Vol. 18, No. 4 July 1988

CONTENTS

SPECIAL ISSUE: KIN RECOGNITION IN ANIMALS

Guest Editors: Andrew Blaustein, Richard H. Porter, and Michael D. Breed

INTRODUCTION

Kin Recognition in Animals: Empirical Evidence and Conceptual Issues 405
Andrew R. Blaustein, Richard H. Porter, and Michael D. Breed

ARTICLES

Sister, Aunt–Niece, and Cousin Recognition by Social Wasps 409
George J. Gamboa

Kin Recognition in the Sweat Bee, *Lasioglossum zephyrum* 425
Les Greenberg

The Ontogeny of Kin Discrimination Cues in the Honey Bee, *Apis mellifera* 439
Michael D. Breed, Tammy M. Stiller, and Mary Jo Moor

Ecological Correlates and Potential Functions of Kin Recognition and Kin Association in Anuran Larvae 449
Andrew R. Blaustein

Kin Recognition in Birds 465
Michael D. Beecher

The Ontogeny of Sibling Recognition in Rodents: Superfamily Muroidea 483
Richard H. Porter

Ground Squirrel Kin Recognition Abilities: Are There Social and Life-History Correlates? 495
P. L. Schwagmeyer

Kinship and Behavior in Nonhuman Primates 511
Irwin S. Bernstein

Kin Discrimination and Reproductive Behavior in Muroid Rodents 525
Donald A. Dewsbury

Preweaning Experience in the Control of Mating Preferences by Genes in the Major Histocompatibility Complex of the Mouse 537
Gary K. Beauchamp, Kunio Yamazaki, Judith Bard, and Edward A. Boyse

Analysis of a Genetic Recognition System in Wild House Mice 549
Sarah Lenington, Kathleen Egid, and Jessie Williams

BEHAVIOR GENETICS

Vol. 18, No. 5 **September 1988**

CONTENTS

Obituary: Joseph Grossfield 565

A Threshold Model for Vocalization to Handling in *Mus domesticus* 571
Norman D. Henderson

Consequences of Consanguinity on Cognitive Behavior 583
Mohammad Afzal

Narrow-Sense Heritability Estimates for Nerve Conduction Velocity and Residual Latency in Mice 595
T. Edward Reed

A Developmental-Genetic Analysis of Agressive Behavior in Mice. II. Cross-Sex Inheritance 605
Kathryn E. Hood and Robert B. Cairns

Genetic Basis for Remating in *Drosophila melanogaster*. II. Response to Selection Based on the Behavior of One Sex 621
Mark H. Gromko and Mary Ellen A. Newport

Genetic Basis for Remating in *Drosophila melanogaster*. III. Correlated Responses to Selection for Female Remating Speed 633
Mark H. Gromko and Mary Ellen A. Newport

Genetics of Color Preferences in Quail Chicks: Major Genes and Variable Buffering by Background Genotype 645
Joseph K. Kovach and Gregory Wilson

BEHAVIOR GENETICS

Vol. 18, No. 6 **November 1988**

CONTENTS

MR/Har and MNRA/Har Maudsley Rat Strains: Differences in Acoustic Startle Habituation 663
Randall L. Commissaris, Gordon M. Harrington, Theodore J. Baginski, and Harvey J. Altman

Substrain Divergence in C3H Inbred Mice 671
B. Heimrich, H. Schwegler, W. E. Crusio, and W. Buselmaier

Spectral Analysis of *Drosophilia* Courtship Songs: *D. melanogaster*, *D. simulans*, and Their Interspecific Hybrid 675
David A. Wheeler, Warren L. Fields, and Jeffrey C. Hall

ABSTRACTS

Behavior Genetics Association Abstracts 705

ANNOUNCEMENTS 739
REFEREES FOR VOLUME 18 OF *BEHAVIOR GENETICS* 745
AUTHOR INDEX TO VOLUME 18 747
SUBJECT INDEX TO VOLUME 18 751